September 24, 2007

Joint Interoperability Test Command
P.O. Box 12798
2001 Brainard Rd.
Fort Huachuca, AZ 85670

Attn: Shawn Smith & CPT Heyman
Subject: Cisco 6500 Switch IPv6 Compliance

To whom it may concern,

Cisco Systems, Inc. has reviewed the DoD IPv6 Standard Profiles For IPv6 Capable Products Version 2.0, 15-Jun-2007 and has used this as the basis for the Layer 3 Switch requirements for this Letter of Compliance.

The following platforms, as part of the product family identified in the table below, are compliant to the RFC list that immediately follows the product table.

Product Family	Platforms
Cisco Catalyst 6500 (***SEE NOTE 1)***	WS-C6503-E with Sup720, Sup720-10G, Sup32, Sup32-Pisa WS-C6504-E with Sup720, Sup720-10G, Sup32, Sup32-Pisa WS-C6506-E with Sup720, Sup720-10G, Sup32, Sup32-Pisa WS-C6509-E with Sup720, Sup720-10G, Sup32, Sup32-Pisa WS-C6509-NEB-A with Sup720, Sup720-10G, Sup32, Sup32-Pisa WS-C6513 with Sup720, Sup720-10G, Sup32, Sup32-Pisa
Cisco ME 6524	Cisco ME 6524 with 24 Gigabit Ethernet SFP Downlinks Cisco ME 6524 with 24 Ethernet 10/100/1000 Downlinks

NOTE 1:
The Cisco Catalyst 6500 Switches C6503, C6504, C6506, C6509 and C6513 are architecturally equivalent, so only one will be tested on behalf of the 6500 product family.
All the Cisco Catalyst 6500 Supervisor engines including Supervisor 720, Supervisor 32, Supervisor 32-Pisa, ME-6524 are architecturally equivalent in support for IPv6 features and functionality.

The listed platforms are compliant to the Layer 3 Switch RFC's below based on IOS version 12.2SX.
In the RFC list below, a √is used to show support for the RFC.

Layer 3 Switch IPv6 Conformance Checklist

IPv6 Base

- √ RFC 1981 Path MTU Discovery for IPv6
- √ RFC 2460 Internet Protocol v6 (IPv6) Specification

- √ RFC 2461 Neighbor Discovery for IPv6
- √ RFC 2462 IPv6 Stateless Address Auto-configuration or RFC 3315 Dynamic Host Configuration Protocol for IPv6 (DHCPv6) or both.
- √ RFC 4007 IPv6 Scoped Address Architecture [Supported except 6vpe feature]
- √ RFC 4193 Unique Local IPv6 Unicast Addresses
- √ RFC 4291 IP Version 6 Addressing Architecture
- √ RFC 4443 Internet Control Message Protocol (ICMPv6) [Partial support - RFC 2463 fully supported]

Multicasting

- √ RFC 2710 Multicast Listener Discovery (MLD) for IPv6
- √ RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6

Connection Technologies

(Required support for at least one of the below)

- √ RFC 2464 Transmission of IPv6 Packets over Ethernet Networks
- ❑ RFC 2467 Transmission of IPv6 Packets over FDDI Networks
- √ RFC 2472 IP Version 6 over PPP
- ❑ RFC 3572 IPv6 over MAPOS (Multiple Access Protocol over SONET/SDH)

(Optional additional connection technologies)

- √ RFC 2492 IPv6 over ATM Networks January 1999 [NOTE: Cisco supports this RFC but we have no need to test this.]

Network Management

- √ RFC 3411 An Architecture for Describing Simple Network Management Protocol Version 3 (SNMPv3)
- √ RFC 3412 Message Processing and Dispatching for the SNMP
- √ RFC 3413 SNMP Applications

Sincerely,

John McCool
SVP, ISBU
408-527-8234
MS SJC03/4/3
225 East Tasman Drive
San Jose, CA 95134